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**OJI PAPER CO LTD**

Applicant :

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MATSUDA HITOSHI  
WADA MOTOHIDE  
MIYAWAKI HIDEMI****(54) PRODUCTION OF COMPOSITE PARTICLE**

(57)Abstract:

**PROBLEM TO BE SOLVED:** To obtain composite particles high in composite rate, excellent in mechanical stability, and capable of providing, as a filler for paper manufacturing, the resultant paper in high yield with an excellent whitening degree and high opacity in white paper, and also providing it with a high opacity even after it is printed, by providing a composite form between fine particles and silicic acid hydrate under a specific condition.

**SOLUTION:** This method comprises the steps of: adding an alkali-resistant fine particle (calcium carbonate, titanium dioxide, etc.), to a silicic acid alkaline aqueous solution for dispersion of the particles; raising the liquid temperature up to 70 to 95°C; and adding a mineral acid (sulfuric acid, etc.), thereto while keeping the temperature in such a range so as to adjust the pH in the range of 3 to 6.5, thus obtaining the objective composite particles.